Instruction book 2826 100-3

Please read carefully
before attempting to
operate your new TV

Color Television

Operating Instructions
Warranty Information

RCA

OWNER'S MANUAL

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COVER PAGE

Tape or Staple Your Sales Slip and Warranty Registration Here.

- **You must be able to show your warranty registration or evidence of purchase date to your RCA Authorized Servicenter or RCA Service Company to obtain warranty parts and service.**
- Warranty registration of your set ensures that you will be contacted right away if there should be a safety inspection, modification, or product recall under applicable laws or regulations.
- The dealer who sold you the set should have registered it and given you the customer's copy of the warranty registration, illustrated here. If your dealer did not give you a copy of the warranty registration or if it is not filled out, contact him right away. You should have accurate information.

Record Vital Information Here!

- No other set has the same serial number as yours. You will find the serial number and the TV model number on the back of your set and on your warranty registration.
- Make sure you have recorded both numbers so that you will have them in case your set is stolen or in case you need a complete description for any other reason.

MODEL NO. _____

SERIAL NO. _____

PURCHASE DATE: _____

PURCHASED FROM: _____

_____

_____

Safety Precautions

WARNING: To prevent fire or shock hazard, do not expose this TV to rain or moisture.

The lightning flash and arrowhead within the triangle is a warning sign alerting you of "dangerous voltage" inside the product that presents a risk of electric shock.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.

Note to Cable TV Installer: This reminder is provided to call your attention to Article 820-22 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part 1) which provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Si un livret d'instructions en français n'est pas inclus avec votre appareil, vous pouvez en obtenir un (INDIQUER LE NUMERO DE MODELE, VOTRE NOM, ET VOTRE ADRESSE) en vous adressant à:

RCA Inc.
Service des données techniques
5575 ave. Royalmount
Ville Mont-Royal, Québec, Canada H4P 1J8

RCA Consumer Electronics
600 N. Sherman Dr.
P.O. Box 1976
Indianapolis, IN 46206-1976

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Cover D

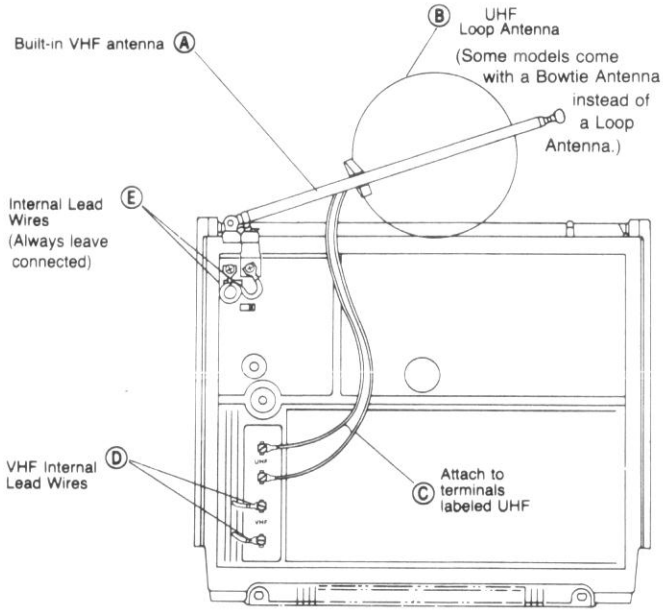
❶ Select a suitable location for your new TV. Use the following guidelines:

- Pick a location that's convenient, but keep your set away from extreme direct heat such as full sunlight, heat registers or radiators.
- Allow for air circulation at bottom, top, and back of set. Don't slide things like books or magazines under your set or operate it while it's sitting on thick pile or shag carpet or on a bed.
- Try to avoid direct light on the screen. Because the picture tube emits light, direct light on the screen will weaken picture quality and intensity.
- If you are using an indoor antenna, an outside wall is a good location. You may have to try a few different locations to find the best possible spot for reception.

❷ Connect the antenna system to your TV. Follow the steps below for the type of antenna you want to connect.

Indoor Antenna Connection

Follow these steps to connect the indoor antennas furnished with your TV (only if you do not want to connect an outdoor antenna).


Built-in VHF antenna Ⓐ
Ⓑ UHF Loop Antenna
(Some models come with a Bowtie Antenna instead of a Loop Antenna.)
Internal Lead Wires (Always leave connected)
Ⓔ
VHF Internal Lead Wires
Ⓓ
Attach to Ⓒ terminals labeled UHF

VHF Antenna (built-in)

Your TV set is equipped with a VHF built-in telescoping rod antenna ready for use Ⓐ.

1. Make sure the VHF internal lead wires Ⓓ are connected to the screw terminals marked VHF on your TV.
2. Make sure the internal lead wires Ⓔ are connected.
   Note: Lead wires Ⓔ are connected for you at the factory and should remain connected at all times.
3. Later when viewing the TV, adjust the length and position of the antenna rod for best reception.
   Note: To connect another type of "indoor" antenna (such as rabbit ears, etc.), follow the same instructions as those given for outdoor/cable system antennas.

UHF Loop or Bowtie Antenna (furnished)

1. Extend the VHF antenna rod Ⓐ
2. Insert the center slot of the UHF loop over a section of the rod. Slide the loop down the rod until it fits snugly.
3. Connect the twin lead from the loop to the screw terminals marked UHF Ⓒ.
4. Later when viewing the TV, rotate the loop until you find the position that gives you the best reception for UHF channels.

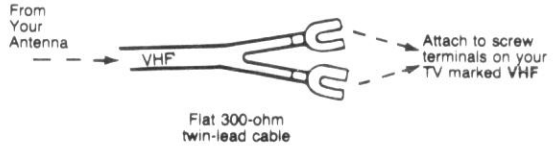
Outdoor/Cable Antenna Connection

Follow these steps if you want to connect either an *outdoor antenna system* or a *Cable TV cable* to your set instead of the furnished indoor antennas.

Note: Do not connect both an indoor and an outdoor antenna/cable system to the same screw terminals. Disconnect the indoor antenna before connecting the outdoor antenna/cable system.

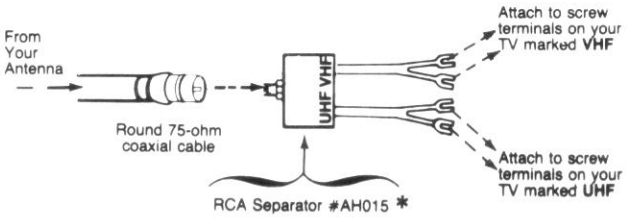
IMPORTANT: Lead wires Ⓔ (shown on the diagram at the left) are connected for you at the factory and should remain connected at all times.

A. If the antenna cable coming from your outdoor antenna is a *flat 300-ohm twin-lead cable* as shown below, connect it to your set like this:



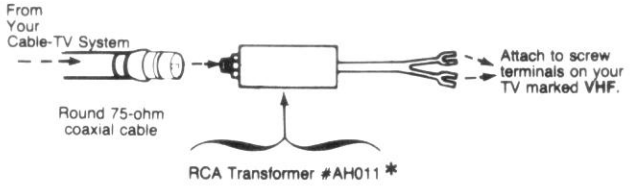
Note: If your antenna system has another 300-ohm twin-lead cable for UHF signals, connect it to the UHF terminals.

B. If the antenna cable coming from your outdoor antenna is a *round 75-ohm coaxial cable* that carries both VHF (channels 2-13) and UHF signals, connect it to your set like this:


From Your Antenna
UHF VHF
Round 75-ohm coaxial cable
RCA Separator #AH015 *
Attach to screw terminals on your TV marked VHF
Attach to screw terminals on your TV marked UHF

Note: If the round coaxial cable coming from your outdoor antenna only carries VHF signals (channels 2-13), connect it to your set as shown in Step C below.

C. If you have a cable-TV system, connect it to your set like this:

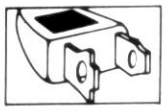

From Your Cable-TV System
Round 75-ohm coaxial cable
RCA Transformer #AH011 *
Attach to screw terminals on your TV marked VHF.

* Optional accessory available from your RCA dealer.

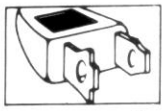
❸ Connect the AC Power Cord.

1. First insert the female end of the furnished 4-wire power cord into the 4-prong male connector on the back of your TV. The plug is designed to fit only one way.
2. Then insert the 2-prong male end of the power cord into a corresponding AC power receptacle.

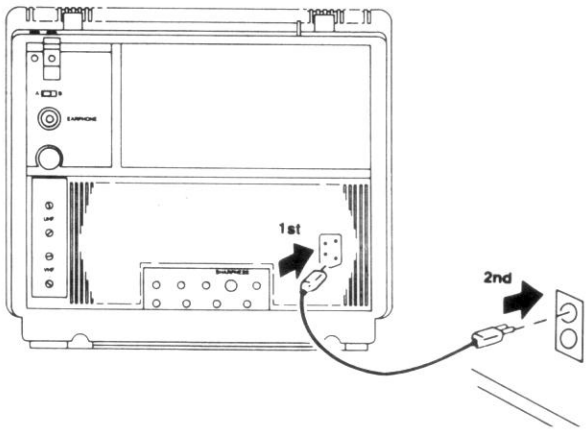
Note: Your TV operates on 120 volts, 60 Hz (normal household current) and has a polarized plug. Because one blade of the plug is wider than the other, the plug fits into the wall socket only one way. Do not defeat the safety feature of this plug. If you need to use an extension cord, make sure it is polarized.



CAUTION: To prevent electric shock, do not use the polarized plug on this television with an extension cord, receptacle, or other outlet, unless both blades can be fully inserted to prevent blade exposure.



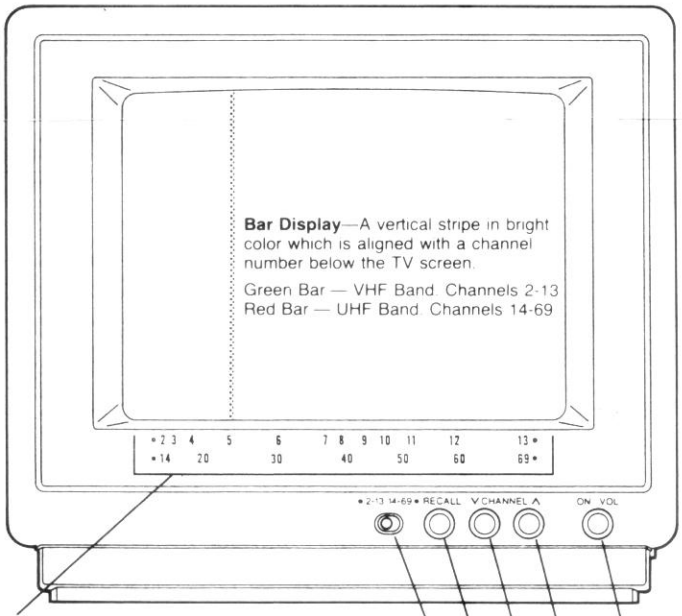
MISE EN GARDE: Pour prévenir les chocs électriques, ne pas utiliser la fiche polarisée de cet appareil avec une rallonge, une prise de courant ou une autre sortie, à moins que les lames ne puissent être insérées à fond sans qu'aucune partie ne soit laissée à découvert.



CAUTION: Maintain electrical safety. Powerline-operated equipment or accessories connected to this television should bear the UL listing mark or CSA certification mark on the accessory itself and should not have been modified so as to defeat the safety features. This will help avoid any potential hazard from electric shock or fire. If in doubt, contact qualified service personnel.

❹ Use the diagram below to familiarize yourself with the location and function of the controls on your TV.

Front



Bar Display—A vertical stripe in bright color which is aligned with a channel number below the TV screen.
Green Bar — VHF Band Channels 2-13
Red Bar — UHF Band Channels 14-69

Channel Numbers—Indicate the number of the channel your TV is receiving when Bar Display is visible.

Band Selector Switch—Slide left for VHF channels 2-13. Slide right for UHF channels 14-69

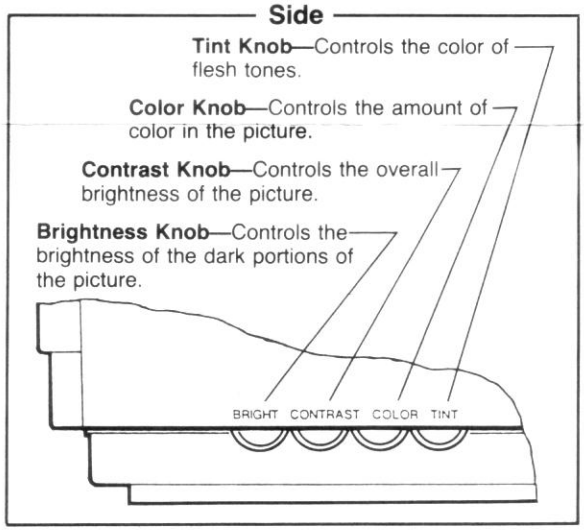
Recall Button—To bring the Bar Display to the TV screen, press the Recall Button.

Channel Down Button—Press to automatically select the next lower channel in your TV viewing area.

Channel Up Button—Press to automatically select the next higher channel in your TV viewing area.

On/Off and Volume Control Knob—Turn right to turn on the set and increase volume. Turn left to decrease volume. Turn all the way to the left to turn off the set.

Side



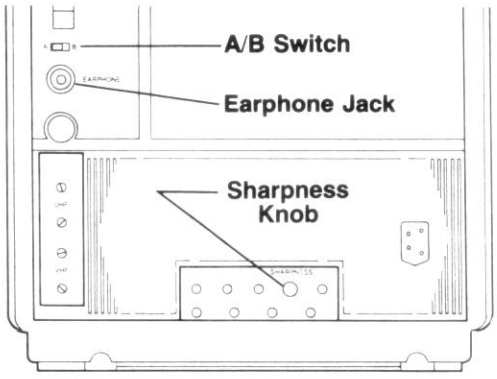
Tint Knob—Controls the color of flesh tones.

Color Knob—Controls the amount of color in the picture.

Contrast Knob—Controls the overall brightness of the picture.

Brightness Knob—Controls the brightness of the dark portions of the picture.

Back



IMPORTANT: These are the only user controls. All other controls on the back are for your service technician only.

❺ Position A/B Switch.

- For normal TV viewing, place the A/B Switch (located on the back of your TV) to the "A" position.
- When using your TV with a Video Cassette Recorder, move the switch to the "B" position. This allows the set to remain tuned to Channel 3 or 4 for playback of videotape.

Note: The VCR must be turned on before selecting channel 3 or 4 with the Channel Up (∧) or Channel Down (∨) buttons on the TV.

❻ Turn on your new TV and adjust the sound level.

1. Turn the On/Off/Volume Knob to the right to turn on your set.
2. Turn it to the right to increase the sound level. Turn it to the left to decrease the sound level.
3. Turn it all the way to the left to turn off set.

Note: When your set is first turned on, sound will be immediately heard and the TV picture will appear a few seconds later.

❼ Determine what channel your TV has tuned to.

When you first turn on your TV, it will automatically tune itself to the first VHF or UHF station available in your area. Follow the steps below to determine what channel your TV has tuned itself to.

1. Press the Recall Button to light the Bar Display.
2. Then refer to the numbered dial under the TV screen. The number of the channel you are viewing will be directly below the Bar Display.
   - If the Bar Display is green, refer to the VHF series of numbers (channels 2-13) to determine what channel you're viewing.
   - If the bar display is red, refer to the UHF series of numbers (channels 14-69) to determine what channel you're viewing.

Note: If a TV channel in your viewing area is not broadcasting and/or is off the air, the Bar Display will not stop at that channel number.

❽ Change channels.

1. Press once and release the Channel Up (∧) Button. The Bar Display will light, move across the TV screen, and then stop at the next available channel in your area.
   Note: When the Bar Display is seeking a channel, there is no picture on the screen and no sound. After indicating the channel on the dial numbers below the TV screen, the Bar Display disappears.
2. Press and release the Channel Up (∧) Button again to view the next available channel. Continue this procedure until you have moved the Bar Display to the extreme right side of the TV screen.

Note: When the Bar Display has scanned to the extreme right side of the TV screen, it will reverse directions and continue to tune in the last available channel on the right side.

3. Now press and release the Channel Down (∨) Button. The Bar Display will move to the left and tune in the first available channel.
4. Press the Channel Down (∨) Button again to light the Bar Display and move it one more channel to the left.

❾ Change the Band Selector Switch.

1. If the Band Selector Switch is in the left position, you were viewing VHF stations (channels 2-13) while following step ❽ above. If the Band Selector Switch is in the right position, you were viewing UHF stations (channels 14-69) while following step ❽ above.
2. Change the position of the Band Selector Switch. (If the Switch is left, move it right. . .or. . .if the Switch is right, move it left.) This will allow you to view other available channels when you press the Channel Up or Channel Down Buttons.
3. Press the Channel Up or Channel Down Buttons to view the available channels in this new band.

❿ Scan channels quickly.

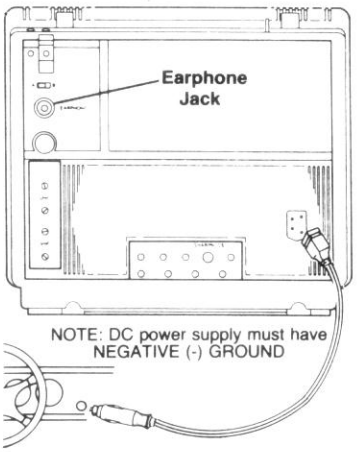
1. Press and hold either the Channel Up or the Channel Down Button. The picture on each available channel will momentarily appear before the Bar Display moves to the next TV channel. This allows you to quickly scan all the available channels in whatever band you have selected with the Band Selector Switch.
2. Release the Channel Button when the desired channel is displayed on the screen.

⓫ Follow the instructions on PAGE 5 to adjust for a color picture that pleases you.

SPECIAL INSTRUCTIONS

How to Operate TV with Earphone:

- Your set comes with an earphone for private listening.
- Simply plug the earphone into the jack marked EARPHONE on the back of your set.
- Sound will then come through the earphone instead of the TV speakers.



How To Operate TV on DC Power (automobile cigarette lighter receptacle):

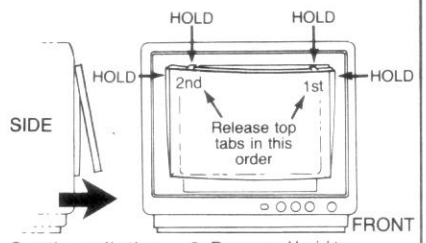
Your TV will operate on normal household AC current (120 volt, 60 Hz) or from a 12-volt DC automobile electrical system with negative ground.

1. Unplug the AC cord from the wall outlet.
2. Unplug the AC cord from the back of your TV.
3. Plug the square end of the DC power cord into the back of your TV. (Use the same 4-prong outlet for the AC Power Cord and the DC Cord.)
4. Plug the round end of the DC Power Cord into an automobile cigarette lighter socket.
5. Operate the TV the same way as you would if the set were on AC power.

How to Remove, Clean and Replace the Contrast Enhancement Filter:

Removing the Filter

The filter is held in place by two tabs—one near each top corner. *To remove the filter,* each of the top tabs must be pressed while the filter is gently pulled downward to release the tab from its slot. The tabs must be pressed and released in the order shown below:



1. Gently pull the bottom of the filter away from the screen.
2. Press and hold top right tab while gently pulling the filter downward.
3. Press and hold top left tab while gently pulling the filter downward.

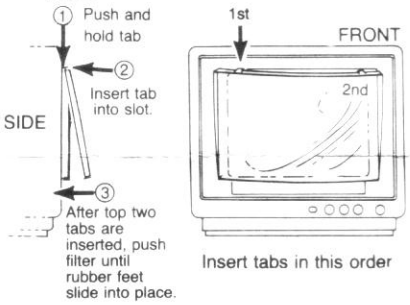
Cleaning the Filter

CAUTION: Do not clean the filter with a dry cloth because the dust will act as an abrasive and may scratch the surface. Do not use strong cleaning solutions, ammonia, or abrasive cleaners.

1. After removing the filter, flush it with cool water to remove the dust.
2. Then wash it in a solution of one teaspoon dishwashing detergent to a pint of lukewarm water.
3. Wash, rinse, and dry the filter with a soft, lint-free cloth. To obtain a long-lasting, dust-free surface, wash it with a general purpose anti-static solution prior to drying it.

Replacing the Filter

1. To replace the filter, first place it against the screen. Make sure you place the edge marked "bottom" at the bottom of the screen.
2. Starting with the top left corner, press and hold the tab while gently inserting it into its slot in the cabinet.
3. Then press and hold the tab on the top right corner while inserting it into its slot.
4. Push the bottom of the filter against the screen until the rubber feet slide into place.


1 Push and hold tab
2 Insert tab into slot.
3 After top two tabs are inserted, push filter until rubber feet slide into place.
SIDE
1st
FRONT
2nd

Insert tabs in this order

Warranty Information

This limited warranty is a statement of RCA's promise to you. It does not take the place of your registration which is a record of your ownership of a particular RCA TV set. You will need the warranty registration or evidence of purchase date to obtain warranty parts and service. See Cover Page for warranty registration information.

RCA Limited Warranty — Portable Color Television

What does your warranty cover:
- Any defect in material or workmanship.

For how long after your purchase:
- Ninety days for labor charges.
- One year for parts.
- Two years for picture tube.

The warranty period for rental sets begins with the first rental.

What will RCA do:
- Pay any RCA Authorized Television Servicenter the labor charges to repair your set.
- Provide new or, at our option, rebuilt replacement parts and picture tubes for the RCA Authorized Television Servicenter to make the repairs.

How do you get service:
- Take your set to any RCA Authorized Television Servicenter or to the RCA Service Company. For their names and locations, ask your dealer or RCA Distributor, or look in the Yellow Pages.
- Show the service technician your Warranty Registration or evidence of purchase date.
- Pick up your set when repairs are completed.

What does your warranty *not* cover:
- Transportation to and from the Servicenter.
- Customer instruction. Your Owner's Manual provides information regarding operating instructions and user controls. For additional information, ask your dealer.
- Installation and set-up service adjustments.
- Signal reception problems caused by external or cable systems.
- Damage from misuse or neglect.
- Remote control batteries.
- Sets which have been modified or incorporated into other products.
- Sets purchased or serviced outside the USA.

How does state law relate to this warranty:
- This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

What if you purchased your set in Canada:
- Refer to the Canadian Warranty.

How to Adjust for a Color Picture that Pleases You

What is pleasing to one person may not be to another. If the picture is not to your liking after you turn on your set, make the following adjustments:

1. Turn the *COLOR* and *CONTRAST* knobs to the left as far as they will go. This will leave a dim black-and-white picture on the screen.
2. Turn the *BRIGHTNESS* knob left or right until the black parts of the picture appear black. You may need to wait until the picture shows something you're sure is black to make this adjustment. Be careful not to lose the details in darkly shaded areas. Once the *BRIGHTNESS* knob has been set properly, you shouldn't have to touch it again.
3. Turn the *CONTRAST* knob to the right until the picture pleases you.
4. Turn the *COLOR* knob right until you reach a pleasing level of intensity.
5. Adjust the *TINT* knob until flesh tones or other color objects appear natural.
6. Adjust *SHARPNESS* knob (on back of set) for a pleasing level of picture sharpness.
   - For normal viewing, turn to midrange until the knob catches slightly.
   - For a sharper picture, turn knob to right.
   - For weak signals, the picture may be more pleasing with the knob turned to the left.

CAUTION: When using TV games, computers, and similar products with your TV, keep the Brightness and Contrast controls at low settings. If a fixed (non-moving) pattern is left on the screen for long periods of time at a high Brightness or Contrast setting, the image can be permanently imprinted onto the screen. These types of imprints are not covered by your warranty because they are the result of misuse.

Interference

Adjustments you can make if you experience interference or reception problems:

- Sometimes moving the inside antenna around helps.
- You may need an outside antenna.
- You may need to install a filter between the antenna and your TV set.

Interference can cause a pattern of lines over the picture.

"Ghosts" are double images or shadows over the picture.

Things to Check if You Experience a Problem

Sometimes problems can be easily solved by checking a few basic things. So check here before you call for help or take your unit to an RCA Authorized Servicenter or the RCA Service Company. It could save you time and money. If service should be necessary, RCA Authorized Servicenters and the RCA Service Company are trained and equipped to furnish it.

If you're having this kind of trouble:	Check these things:	Then try these adjustments:
• No picture or sound.	• Be sure power cord is plugged in. • Be sure TV is turned on. • Try another channel (station trouble). • Check antenna connections.	
• Sound OK; poor picture	• Try another channel (station trouble). • Check antenna connections. • May be local interference.	• Adjust *BRIGHTNESS* control. • Adjust *CONTRAST* control. • Adjust indoor antenna, if your set has one.
• Picture OK; poor sound.	• Try another channel (station trouble). • Check antenna connections. • May be local interference.	• Adjust *VOLUME* control. • Adjust indoor antenna, if your set has one.
• Poor reception.	• Try another channel (station trouble). • Check antenna connections. • May be local interference.	• Adjust indoor antenna, if your set has one.
• Lines in picture.	• Try another channel (station trouble). • Check antenna connections. • May be local interference.	• Adjust indoor antenna, if your set has one.
• Picture rolls vertically.	• Try another channel (station trouble). • May be local interference.	
• No color or poor color.	• Try another channel (station trouble). • Check antenna connections. • May be local interference.	• Adjust indoor antenna, if your set has one. • Adjust *TINT* and *COLOR* controls. • Adjust fine tuning, if your set has it.
• Ghosts (multiple images).	• Try another channel (station trouble). • Check antenna connections. • May be local interference.	• Adjust indoor antenna, if your set has one. • Adjust *SHARPNESS* knob, if your set has one.
• No sound.	• Earphone may be plugged in.	• Disconnect earphone.